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DOCUMENT-IDENTIFIER: US 6001459 A

TITLE: Heat activated transfer for elastomeric materials

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mahn, Jr.; John	Cincinnati	OH	45238	

US-CL-CURRENT: 428/195; 428/204, 428/40.1, 428/411.1,
428/474.4, 428/480, 428/492, 428/500, 428/521, 428/522

ABSTRACT:

An article and method for marking elastomeric articles, such as tires, floor mats, and the like, includes an elastomeric sheet which is marked with indicia using a solvent based ink which contrasts with the elastomeric sheet. The indicia is cured with a clear thermoset layer such as a polyurethane. This is then applied to an uncured elastomeric article and the elastomeric article is cured. The heat and the pressure of curing causes the elastomeric sheet to bond to the elastomeric article. The indicia remains discernible and is not easily marred or dulled. After curing, the transfer can be further marked by heat transferring indicia in the form of a sublimation dye through the clear polyurethane layer.

5 Claims, 1 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☒ 5. Document ID: US 5380391 A Relevance Rank: 68

L1: Entry 6 of 18

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Jan 10, 1995

US-PAT-NO: 5380391

DOCUMENT-IDENTIFIER: US 5380391 A

TITLE: Heat activated transfer for elastomeric materials

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mahn, Jr.; John	Cincinnati	OH	45238	

US-CL-CURRENT: 156/240; 152/523, 156/230, 156/278, 156/307.1,
428/493, 428/914, 8/471

ABSTRACT:

An article and method for marking elastomeric articles, such as tires, floor mats, and the like, includes an elastomeric sheet which is marked with indicia using a solvent based ink which contrasts with the elastomeric sheet. The indicia is cured with a clear thermoset layer such as a polyurethane. This is then applied to an uncured elastomeric article and the elastomeric article is cured. The heat and the pressure of curing causes the elastomeric sheet to bond to the elastomeric article. The indicia remains discernible and is not easily marred or dulled. After curing, the transfer can be further marked by heat transferring indicia in the form of a sublimation dye through the clear polyurethane layer.

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☒ 6. Document ID: US 5032460 A Relevance Rank: 68

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Jul 16, 1991